

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 2001208237  
 PUBLICATION DATE : 03-08-01

APPLICATION DATE : 24-01-00  
 APPLICATION NUMBER : 2000017934

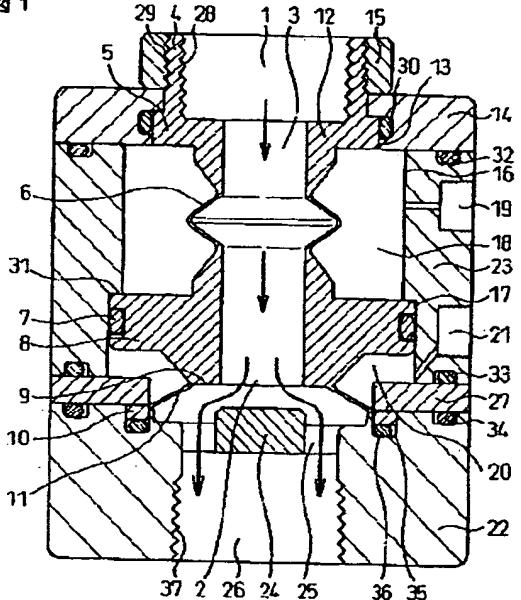
APPLICANT : ASAHI ORGANIC CHEM IND CO LTD;

INVENTOR : KONO HIROYUKI;

INT.CL. : F16K 31/122 F16K 31/126

TITLE : AUTOMATIC VALVE

図 1



1… <b>流入口</b>	11… <b>薄脛部</b>	21… <b>第2作動流体流通口</b>
2… <b>流出口</b>	12… <b>筒状部材</b>	22… <b>弁座体</b>
3… <b>直線流路</b>	13… <b>段差部</b>	23… <b>本体</b>
4… <b>締合部</b>	14… <b>蓋体</b>	24… <b>弁座</b>
5… <b>小径部</b>	15… <b>キャップナット</b>	25… <b>流路</b>
6… <b>ペローズ部</b>	16… <b>収容部</b>	26… <b>流出開口</b>
7… <b>シール材</b>	17… <b>段差部</b>	27… <b>支持体</b>
8… <b>大径部</b>	18… <b>第1環状空間</b>	35… <b>嵌合溝</b>
9… <b>弁体部</b>	19… <b>第1作動流体流通口</b>	20… <b>第2環状空間</b>
10… <b>嵌合突部</b>	20… <b>第2作動流体流通口</b>	

ABSTRACT : PROBLEM TO BE SOLVED: To provide an automatic valve requiring no wide piping space, and having a compact whole body, a high Cv value, and no liquid sump.

SOLUTION: This automatic valve is provided with a cylinder member 12 which is formed with a linear passage 3 having an inlet 1 and outlet 2 in its inside, and integrally formed with a threaded engagement part 4 having a nut 15 in the axial direction of the passage in the outer circumference, a small-diameter flange 5, a bellows 6, and a large-diameter flange 8, a valve element 9 formed in the circumferential edge of the outlet 2, and a thin film part 11 having a fitting projection 10 in its circumferential edge; a lid body 14 having a stepped part 13 for fitting the small-diameter flange 5; a body 23 which has a first annular space 18 fixed to the lid body 14 and storing the bellows 6, a first operating fluid flowing port 19 communicated with the annular space 18, a second annular space 20 formed of the large-diameter flange 8 and the thin film 11, and a second operating fluid flowing port 21 connected to the annular space 20; and a valve seat body 22 clamping the fitting projection 10 of the thin film 11 together with the body 23 and having a projecting valve seat 24 in the center, a plurality of passages 25, and an outlet 26.

COPYRIGHT: (C)2001,JPO